



Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: N/A

Borehole ID: HGL37
Date: 12/5/2002 *24-PMW-18*
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): N/A
Easting: N/A

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
2		Poorly graded sand Moderate yellowish brown, moist, soft, 100% fine sand	SP						Hand auger to 5'. Trace gravel at surface.
4		unit becomes moderate dense with trace silt at 6'			90	11/20/30	4.3		
6		unit becomes 100% fine grained sand at 8'							
8									
10		unit becomes very moist and soft at 10'			95	9/13/13	6.7		Water in borehole. Set temporary well at 13'. Did not penetrate clay zone. Inadequate groundwater to collect sample.
12		Clayey sand Pale yellowish brown, very moist, dense, 60% medium grained sand, 40% clay	SC						
14			SP						
16		Poorly graded sand Pale yellowish brown, moist to very moist, soft, loose, medium grained sand with trace clay lenses			40	14/50 for 5"	5.7		
18									
20		unit becomes very moist to saturated and 100% fine grained sand with trace silt at 15'			100	25/40/44	128		
22									
24		unit becomes saturated and 100% medium grained sand at 19.5'	CL		100	28/32/32	365		
26									
28		Clay with silt Pale yellowish brown mottled with dark yellowish brown (10%), moist, stiff, 90% clay, 10% silt	SM		90	33/36/44	260		
30									Set well at 25'. PID indicates 270 ppm VOCS within well casing.
32		Sand with silt Dark greenish gray, moist, moderately dense, 95% medium grained sand, 5% silt							
34			ML		100	34/40/45	37		
36		lense of clayey silt with sand from 35'-36'	SP						
38		lense of medium grained sand from 36' to 39.5'							Intermediate zone water not encountered.
40			ML		95	18/22/40	32		

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: CA Mod Split Spoon

HydroGeoLogic, Inc.

4600 Northgate Blvd., Suite 207
Sacramento, CA 95834

(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 67'

Sheet: 1 of 2



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SUBSURFACE PROFILE				SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	
42		Silt with clay Medium bluish gray, moist, medium stiff, 95% silt, 5% clay	ML		95			1425 Set temporary well in deep zone. 1515 Collect deep groundwater sample (HGL37-GW67). Abandoned boring with 20:1 grout slurry of cement and bentonite. Shallow well 24PMW18 installed adjacent to this boring.
44		Sand with gravel Medium bluish gray, moist, loose, 80% coarse grained sand, 20% gravel (subangular, 1 mm x 2 mm)	SP					
46			ML		95	22/24/30	7.7	
48								
50		Silt with clay Medium bluish gray, moist, slightly stiff, 90% silt, 10% clay, intermittent lenses of medium grained sand (interstitial water)	SP		95	24/34/42	13.1	
52								
54								
56		Sand with gravel Medium bluish gray, moist, loose, 90% coarse grained sand, 10% gravel (subangular to angular, 1 mm x 2 mm)			95	27/29/40	5.1	
58								
60		unit becomes a mix of sand, gravel, and silt at 55'. Clasts of mudstone and Monterey formation interbedded cherts at 55'			40	54/50 for 2"	3.6	
62								
64								
66		unit becomes saturated at 65'			50	15/20/20	8.7	
68								
70								
72								
74								
76								
78								
80								

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